## PALL LIFE SCIENCES MAPLE ROAD INTERIM RESPONSE PROPOSAL FOR A PERFORMANCE MONITORING WELL ON THE WEST SIDE OF MAPLE ROAD

## **Background**

The Michigan Department of Environmental Quality (MDEQ) has requested additional information regarding Pall Life Sciences' (PLS') proposal to install a well at an alternative location to the third (northern) monitoring well location in Veterans Park.

PLS has installed two of the three performance monitoring wells requested by the MDEQ (MWs-115 and 116). The third and northernmost well was not installed due to difficulties encountered during the drilling of PLS 07-09 that would not allow advancement of this boring to bedrock. As a result of these difficulties, PLS has further questioned the logic of attempting to install another well on the east side of Maple Road.

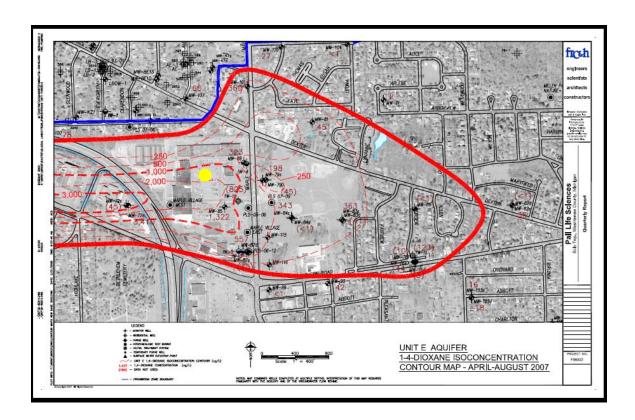
It has consistently been PLS' position that monitoring the west side of Maple Road is more logical than monitoring on the east side. The foundation of this position is that 1,4-dioxane concentrations in excess of 2,800 micrograms per liter ( $\mu$ g/L) have not been detected at a single location east of MW-72d, and PLS has been running the Maple Road Interim Response on a voluntary basis for the sole purpose of reducing mass, not capturing the leading edge of the plume.

Additionally, data collected by PLS shows the following:

- 1. Monitoring wells MW-79s/d and MW-84s/d, located in the vicinity of the proposed northern performance monitoring well, are well positioned to monitor the area of the proposed northern monitoring well. A potentiometric surface map, showing the location of the wells, is attached for reference.
- 2. The geological conditions encountered at PLS-07-09 suggest this location may not be appropriate for a performance monitoring well. A north-south cross section, showing the new wells and the boring, is attached for reference. The presence of a lower sand/gravel at depths below the bottom of the boring is questionable. Additionally, the contaminated sand and gravel encountered at MW-115 thins considerably at the PLS-08-09 boring.

## PLS' Proposal

PLS proposes to install a monitoring well on the west side of Maple Road, rather than attempting to install the third (northern) well in Veterans Park. The location of the proposed well is shown in yellow on the figure below.



The well location should provide valuable information in an area where there are limited data. These data will be helpful to determine whether 2,800  $\mu$ g/L is migrating toward TW-19, or has the potential to migrate north of TW-19 (either between TW-19 and IW-4 or north of IW-4). The well will also serve to provide advance warning that 2,800  $\mu$ g/L may be migrating toward TW-19.

PLS can provide additional information regarding the methods to be used to install this boring/well, once there is agreement between PLS and MDEQ regarding the concept. Please note that installation of this boring/well is dependent on PLS' ability to get access to the property.

